

Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-20 (cancelled)

21. (previously presented) An optical article comprising a transparent substrate made of organic or mineral glass, having main front and rear faces, at least one of said main faces comprising a multi-layer anti-reflection coating,
- wherein said anti-reflection coating comprises at least two visible-absorbing layers comprising a sub-stoichiometric titanium oxide, the visible-absorbing layers being such that the relative transmission factor of visible light T_v is reduced by at least 10% compared with the same article not comprising said visible-absorbing layers, and
- wherein the anti-reflection coating formed on at least one of the faces of the substrate comprises a stack of alternating high refractive index (HI) and low refractive index (LI) layers, wherein:
- at least one of the visible-absorbing layers is a high index (HI) layer comprising a sub-stoichiometric titanium oxide, and
- at least one of the low index (LI) layers comprises a mixture of silicon oxide and aluminum oxide.
22. (previously presented) The article of claim 21, wherein the visible-absorbing layers are such that the relative transmission factor of visible light T_v is reduced by at least 40% compared with the same article not comprising said visible-absorbing layers.
23. (previously presented) The article of claim 21, wherein the visible-absorbing layers have an extinction coefficient (k) equal to or greater than 0.2 for all wavelengths in the visible range from 380 to 780 nm.

24. (previously presented) The article of claim 21, wherein the substrate is made of organic glass.
25. (previously presented) The article of claim 24, wherein the organic glass substrate is made of polycarbonate.
26. (cancelled)
27. (previously presented) The article of claim 21, wherein the low refractive index layer (LI) comprising a mixture of silicon oxide and aluminum oxide is adjacent to a high refractive index (HI) visible-absorbing layer.
28. (previously presented) The article of claim 21, wherein each of the high refractive index layers (HI) of the anti-reflection coating is a visible-absorbing layer made of sub-stoichiometric titanium oxide.
29. (previously presented) The article of claim 21, wherein each of the low refractive index layers (LI) of the anti-reflection coating comprises a mixture of silicon oxide and aluminum oxide.
30. (previously presented) The article of claim 21, wherein the $\text{SiO}_2/\text{Al}_2\text{O}_3$ low refractive index layer (LI) contains 1 to 5% by weight of Al_2O_3 .
31. (currently amended) The article of claim 21, wherein the anti-reflection stack comprises at least 4 ~~alternating HI/LI~~ layers.
32. (previously presented) The article of claim 31, wherein the anti-reflection stack comprises the following layers:
 - 25-35 nm of a mixture of sub-stoichiometric titanium oxides;
 - 10-20 nm of SiO_2 doped with Al_2O_3 ;
 - 45-55 nm of a mixture of sub-stoichiometric titanium oxides;
 - 40-50 nm SiO_2 doped with Al_2O_3 ;
 - 35-45 nm of a mixture of sub-stoichiometric titanium oxides; and

70-80 nm SiO₂ doped with Al₂O₃.

33. (previously presented) The article of claim 21, wherein the sub-stoichiometric titanium oxide in the absorbent layers is given by the formula TiO_x, wherein x is less than 2.
34. (previously presented) The article of claim 33, wherein x varies from 0.2 to 1.2.
35. (previously presented) The article of claim 21, wherein the sub-stoichiometric titanium oxide is obtained from a mixture of TiO and Ti₂O₃.
36. (previously presented) The article of claim 35, wherein the weight ratio of TiO in the mixture of TiO and Ti₂O₃ is at least 50%.
37. (previously presented) The article of claim 21, further comprising an anti-scratch coating formed on the substrate, the anti-reflection coating being deposited onto said anti-scratch coating.
38. (previously presented) The article of claim 21, wherein the anti-reflection coating is deposited exclusively on the rear face of the substrate.
39. (previously presented) The article of claim 21, further defined as an ophthalmic glass.
40. (previously presented) The article of claim 21, wherein the relative transmission factor of visible light T_v of said article is at most 40%.
41. (withdrawn) A process for manufacturing the article of claim 21, wherein all the layers of the anti-reflection stack are deposited by vacuum evaporation.